

CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE: recorded in Microsoft word 6.0 - use tabs to change cells/fields

STATE		FIELD OFFICE		DATE	
PRACTICE: 344 Residue Management Seasonal			NOTES:		
RESOURCE: SOIL RESOURCE CONCERN: EROSION			Help Message: Click on form field for choice lists. Tab key to move around. "N/A" is the default.		
RESOURCE INDICATORS			PHYSICAL EFFECTS		
SHEET AND RILL			Slight to moderate decrease because of increase in surface residue cover.		
WIND			Slight to significant decrease depending on amount and height of cover during critical periods		
EPHEMERAL GULLY			Negligible to slight decrease dependent on amount of residue on surface and period of time during year when residue is present.		
CLASSIC GULLY			Negligible to slight decrease because of decreased runoff during period that residue is present.		
STREAMBANK			Negligible. Reduces overbank flows.		
IRRIGATION INDUCED			Slight to significant decrease.		
SOIL MASS MOVEMENT			Negligible to slight. Increase or decrease depending on rooting depths.		
ROADBANK/CONSTRUCTION			Negligible		
OTHER					
RESOURCE CONCERN: SOIL CONDITION					
SOIL TILTH			Negligible to slight decrease because of increase in organic material, infiltration, and improved biological activities		
SOIL COMPACTION			Negligible		
SOIL CONTAMINATION			Negligible		
• SALTS			Negligible		
• ORGANICS			Negligible		
FERTILIZERS			Negligible		
• PESTICIDES			Negligible		
• OTHER					
DEPOSITION/DAMAGE					
• ONSITE			Slight to moderate decrease because of decreased runoff and sedimentation.		
• OFFSITE			Slight decrease because of decreased runoff and sedimentation		
DEPOSITION/SAFETY					
• ONSITE			Negligible to slight decrease because of decreased runoff and sedimentation.		
• OFFSITE			Negligible to slight decrease because of decreased runoff and sedimentation.		
OTHER					
RESOURCE: WATER					
RESOURCE CONCERN: WATER QUANTITY					
SEEPS			Negligible to slight increase because of increased infiltration.		
RUNOFF/FLOODING			Slight decrease because of reduced runoff and increase infiltration.		

EXCESS SUBSURFACE WATER	Negligible to slight increase because of increased infiltration.
INADEQUATE OUTLETS	Negligible
WATER MGT. IRRIGATION	
• SURFACE	Negligible
• SPRINKLER	Negligible
WATER MGT. NON-IRRIGATED	Slight decrease because of increased water holding capacity. Increases infiltration . May lower soil temperature and evapotranspiration. Slight decrease in efficiencies because of residue blockage in furrows.
RESTRICTED FLOW CAPACITY (H2O convey.)	
• ONSITE	Slight to moderate decrease because of increase in water holding capacity and increased infiltration in water deficient areas. May lower soil temperature.
• OFFSITE	Slight to moderate decrease because of decreased sediment load.
RESTRICTED STORAGE	Slight decreased because of decreased sediment load.
OTHER	

RESOURCE: **WATER**

RESOURCE CONCERN: **WATER QUALITY**

RESOURCE INDICATORS	PHYSICAL EFFECTS
GROUNDWATER CONTAMINANTS	
• PESTICIDES	Slight decrease because of decreased sediment load
• NUTRIENTS AND ORGANICS	Negligible
• SALINITY	Negligible
• HEAVY METALS	Negligible
• PATHOGENS	Negligible
• OTHER	
SURFACE WATER CONTAMINANTS	
• PESTICIDES	Negligible
• NUTRIENTS AND ORGANICS	Negligible
• SUSPENDED SEDIMENTS	Negligible
• LOW DISSOLVED OXYGEN	Slight to moderate decrease because of decreased sediment yield of fine sediment
• SALINITY	Slight decrease because of reduced sediment yields.
• HEAVY METALS	Negligible
• WATER TEMPERATURE	Negligible
• PATHOGENS	Negligible to slight decrease because of reduced sediment in water.
AQUATIC HABITAT SUITABILITY	Negligible
OTHER	

RESOURCE: **AIR**

RESOURCE CONCERN: **AIR QUALITY**

AIRBORNE SEDIMENT AND SMOKE PARTICLES	
• ONSITE SAFETY	Slight to significant decrease because of protective vegetative cover.
• OFFSITE SAFETY	Slight to moderate decrease because of protective vegetative cover.
• ONSITE STRUCT. PROBLEMS	Slight to moderate decrease because of reduce wind erosion.
• OFFSITE STRUCT. PROBLEMS	Slight to moderate decrease because of reduce wind erosion.
• ONSITE HEALTH	Slight to significant decrease because of reduce wind erosion.
• OFFSITE HEALTH	Slight to moderate decrease because of reduce wind erosion.
AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS	Slight to moderate decrease because of reduce wind erosion.
AIRBORNE CHEMICAL DRIFT	Negligible
AIRBORNE ODORS	N/A
FUNGI, MOLDS, AND POLLEN	Negligible
OTHER	

RESOURCE CONCERN: **AIR CONDITION**

AIR TEMPERATURE	N/A
AIR MOVEMENT (windbreak effect)	Negligible
HUMIDITY	Slight to moderate change in microclimate
OTHER	

[illegible]

RESOURCE: HUMAN	
RESOURCE CONCERN: SOCIAL CONSIDERATIONS	
RESOURCE INDICATORS	PHYSICAL EFFECTS
PUBLIC HEALTH AND SAFETY	Significant improvement
PRIVATE/PUBLIC VALUES	Moderate improvement in private/public values
CLIENT CHARACTERISTICS	insignificant
RISK TOLERANCE	N/A
TENURE	N/A
OTHER	
RESOURCE CONCERN: CULTURAL CONSIDERATIONS	
ABSENCE/PRESENCE OF CULTURAL RESOURCES	Slightly improved protection of cultural resources
SIGNIFICANCE OF CULTURAL RESOURCES	N/A
MITIGATION OF NEGATIVE CULTURAL RES. IMPACTS	N/A
OTHER	